

Appl. No. : 10/600,664
Filed : June 20, 2003

AMENDMENTS TO THE CLAIMS

Please amend the Claims as follows:

1. (Original) An automatic variable-speed transmission for setting up a plurality of gear steps comprising an input shaft, an output shaft and two transmission units which form two parallel branches, of which one branch has a multi-step transmission and the other a summing transmission with a friction clutch for starting and for central synchronization, the friction clutch having a first friction element and a second friction element, one of the friction elements being connectable to transmission elements by means of at least one shift element, with the result that at least one first power command range for gear-step changes between low gear steps and at least one second power command range for at least the gear change into the highest gear step and for the highest gear step are provided, the at least one shift element connecting the first friction element to transmission elements such that there is reduced reactive-power flow in any operating mode.
2. (Original) The automatic variable-speed transmission of Claim 1, wherein the at least one shift element connects the first friction element in each case to a gearwheel of wheel trains of the multi-step transmission in both power command ranges.
3. (Currently Amended) The automatic variable-speed transmission of Claim 1, wherein the multi-step transmission has an overdrive wheel train ~~with a~~ so as to provide an overall transmission ratio higher lower than 1 (~~overdrive wheel train~~) and wherein the at least one shift element connects the first friction element to a gearwheel of the overdrive wheel train in the second power command range.
4. (Currently Amended) The automatic variable-speed transmission of Claim 1, wherein one of the gear steps is a direct gear step, and the direct gear step is a lower gear step than the highest gear step, so that the overall transmission ratio in the highest gear step is lower than 1 (~~overdrive~~).
5. (Original) The automatic variable-speed transmission of Claim 1, wherein the input power in the highest gear step is branched to the two branches and the friction clutch is shifted into frictional connection.

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6. (Currently Amended) The automatic variable-speed transmission of Claim 5, wherein the input power in the other gear steps is led directed as a non-branched power flow through the multi-step transmission.

7. (Original) The automatic variable-speed transmission of Claim 1, wherein, by means of the at least one shift element, the first friction element of the friction clutch is selectively connectable to the case or to the wheel train for the highest gear step or to a wheel train for a further gear step.

8. (Original) The automatic variable-speed transmission of Claim 7, wherein the further gear step comprises second gear.

9. (Original) The automatic variable-speed transmission of Claim 7, wherein the further gear step comprises third gear.

10. (Currently Amended) The automatic variable-speed transmission of Claim 1, wherein the friction clutch is arranged in ~~the~~ an axial direction between the multi-step transmission and the summing transmission.

11. (Original) The automatic variable-speed transmission of Claim 1, wherein the summing transmission comprises a planet-wheel train.

12. (Original) The automatic variable-speed transmission of Claim 11, wherein the input shaft is connected to a sun wheel of the planet-wheel train.

13. (Original) The automatic variable-speed transmission of Claim 11, wherein the second friction element of the friction clutch is connectable selectively to a ring wheel or a planet carrier of the planet-wheel train by means of a second shift element.

14. (Original) The automatic variable-speed transmission of Claim 11, wherein the output shaft is connectable selectively to a ring wheel or a planet carrier of the planet-wheel train by means of a third shift element.

15. (Original) The automatic variable-speed transmission of Claim 11, wherein the second friction element of the friction clutch is connected fixedly to a ring wheel of the planet-wheel train.

16. (Original) The automatic variable-speed transmission of Claim 15, wherein the multi-step transmission further comprises a wheel train for reverse gear.

17. (Original) The automatic variable-speed transmission of Claim 1, wherein the transmission input shaft is surrounded by a hollow shaft.

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18. (Original) The automatic variable-speed transmission of Claim 17, wherein the hollow shaft forms the output shaft of the multi-step transmission.

19. (Original) The automatic variable-speed transmission of Claim 11, wherein the transmission input shaft is surrounded by a hollow shaft, the hollow shaft being connected to a planet carrier of the planet-wheel train.

20. (Original) The automatic variable-speed transmission of Claim 17, wherein one wheel of a wheel train of the highest gear is mounted rotatably on the hollow shaft.

21. (Original) The automatic variable-speed transmission of Claim 20, wherein that wheel of the wheel train of the highest gear step which is mounted rotatably on the hollow shaft is connected to the first friction element of the friction clutch.

22. (Original) The automatic variable-speed transmission of Claim 16, wherein one wheel of the wheel train for reverse gear is mounted rotatably on the hollow shaft.

23. (Original) The automatic variable-speed transmission of Claim 22, wherein that wheel of the wheel train for reverse gear which is mounted rotatably on the hollow shaft is connected to the first friction element of the friction clutch.

24. (Original) The automatic variable-speed transmission of Claim 16, wherein a shift clutch is synchronized for the selection of reverse gear.

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SUMMARY OF INTERVIEW

Exhibits and/or Demonstrations

None

Identification of Claims Discussed

Claims 1, 3, 4, 6, and 10

Identification of Prior Art Discussed

DE 197 41 440 A1 (Inventor: Jung, Thomas) April 15, 1999

Proposed Amendments

Regarding Claims 3 and 4: Deleting the parenthetical statements

Regarding Claim 6: Replacing the term “led” with the term “directed”

Regarding Claim 10: Correcting the antecedent nature of the new claim limitation

Principal Arguments and Other Matters

The Applicants’ representatives and Examiner Wright reviewed the Applicants’ invention and the art of reference including Jung ‘440 to clarify the distinctions therebetween as well as the use of the terminology “reduced reactive power” in the context of the Applicants’ claimed invention. The Applicants’ representatives and Examiner Wright also discussed the rejections under 35 U.S.C. § 112, second paragraph, regarding Claims 3, 4, 6, and 10 and agreed upon amendments which would overcome these rejections which are formally made by this paper.

Results of Interview

It was agreed that the Applicants would submit a formal response addressing the rejections under 35 U.S.C. § 112, second paragraph, and agreed that the application is otherwise allowable over the art of record.